

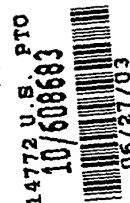


PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Docket No: 20002/16136X

PATENT APPLICATION TRANSMITTAL UNDER 37 C.F.R. 1.53



Mail Stop Patent Application
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Transmitted herewith for filing is the patent application of

Inventor: Mingqiu SUN

Title: METHODS AND APPARATUS TO MANAGE A CACHE MEMORY

1. Type of Application

- ☒ This is a new application for a
☒ utility patent.

2. Application Papers Enclosed

- 1 Title Page
- 49 Pages of Specification
(excluding Claims, Abstract, Sequence Listing & Drawings)
- 10 Pages of Claims
- 1 Page of Abstract
- 18 Sheets of Drawings (FIGS. 1 to 16)
- ☒ Formal
- ☐ Informal

CERTIFICATION UNDER 37 CFR 1.10

I hereby certify that this Patent Application Transmittal and the documents referred to as enclosed therewith are being deposited with the United States Postal Service on **June 27, 2003** in an envelope addressed to Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 utilizing the "Express Mail Post Office to Addressee" service of the United States Postal Service under Mailing Label No. EV266324033 US.



Magda Greer

3. Declaration or Oath

- ☒ Enclosed
 - ☒ Executed by (check all applicable boxes)
 - ☒ Inventor(s)
 - ☐ Legal representative of inventor(s)
(37 CFR 1.42 or 1.43)
 - ☐ Joint inventor or person showing a proprietary interest on behalf of inventor who refused to sign or cannot be reached.
 - ☐ The petition required by 37 CFR 1.47 and the statement required by 37 CFR 1.47 are enclosed.
See Item 5D below for fee.
 - ☐ Not enclosed - the undersigned attorney or agent is authorized to file this application on behalf of the applicant(s). An executed declaration will follow.

4. Small Entity Status

- ☐ Applicant claims small entity status. See 37 CFR 1.27.
- ☐ A small entity statement is(are) attached.

5. Additional Papers Enclosed

- ☐ Preliminary Amendment
- ☐ Information Disclosure Statement
- ☐ Declaration of Biological Deposit
- ☐ Computer readable copy of sequence listing containing nucleotide and/or amino acid sequence
- ☐ Microfiche computer program
- ☐ Associate Power of Attorney
- ☐ Verified translation of a non-English patent application
- ☐ An assignment of the invention
- ☐ Request and Certification Under 35 U.S.C. 122(b)(2)(B)(i)
- ☒ Return receipt postcard
- ☐ Other

6. Priority Applications Under 35 USC 119

Certified copies of applications from which priority under 35 USC 119 is claimed are listed below and

- ☐ are attached.
☐ will follow.

| COUNTRY | APPLICATION NO. | FILED |
|---------|-----------------|-------|
| | | |
| | | |

7. Filing Fee Calculation (37 CFR 1.16)

A. ☒ Utility Application

| CLAIMS AS FILED - INCLUDING PRELIMINARY AMENDMENT(S) (IF ANY) | | | | | | |
|---|-----------|-----------|--------------|----------|---------------------------|-----------|
| | | | SMALL ENTITY | | OTHER THAN A SMALL ENTITY | |
| | NO. FILED | NO. EXTRA | RATE | FEE | RATE | FEE |
| BASIC FEE | | | | \$375.00 | | \$750.00 |
| TOTAL | 46 - 20 | = 26 | X 9 = | \$ | X 18 = | \$468.00 |
| INDEP. | 6 - 3 | = 3 | X 42 = | \$ | X 84 = | \$252.00 |
| First Presentation of Multiple Dependent Claim | | | + 140 = | \$ | + 280 = | \$ |
| Filing Fee: | | | | \$ | OR | \$1470.00 |

B. ☐ Design Application (\$165.00/\$330.00) Filing Fee: \$0.00

C. ☐ Plant Application (\$260.00/\$520.00) Filing Fee: \$0.00

D. Other Fees

☐ Recording Assignment
[Fee — \$40.00 per assignment] \$0.00

☐ Petition fee for filing by other than all the inventors
or person on behalf of the inventor where
inventor refused to sign
or cannot be reached [Fee — \$130.00] \$0.00

☐ Other \$0.00

Total Fees Enclosed \$1470.00

8. Method of Payment of Fees

- ☒ Enclosed check in the amount of: \$1470.00
- ☐ Charge Deposit Account No. 50-2455 in the amount of: \$0.00
A copy of this Transmittal is enclosed.
- ☐ Not enclosed

9. Deposit Account and Refund Authorization

The Commissioner is hereby authorized to charge any deficiency in the amount enclosed or any additional fees which may be required during the pendency of this application under 37 CFR 1.16 or 37 CFR 1.17 or under other applicable rules (except payment of issue fees), to Deposit Account No. 50-2455. A copy of this Transmittal is enclosed.

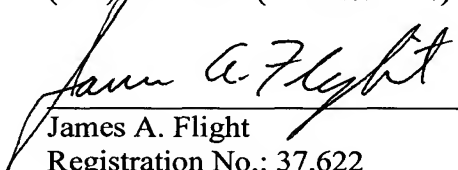
Please refund any overpayment to Grossman & Flight LLC at the address below.

10. Correspondence Address

Respectfully submitted,

GROSSMAN & FLIGHT LLC
20 North Wacker Drive
Suite 4220
Chicago, Illinois 60606-6357
(312) 580-1020
(312) 580-9696 (Telefacsimile)

By:


James A. Flight
Registration No.: 37,622

June 27, 2003